Abstract '

In a thin film magnetic head device including a reading giant magneto-resistive thin film magnetic head element whose electric equivalent circuit is expressed by a series circuit of an equivalent voltage source and a series resistor R_H and a parallel capacitor C connected in parallel with said series circuit, an inductor L is connected in series with said series resistor R_H and a parallel resistor R is connected in series with said parallel capacitor C. The coil L and parallel capacitor C are set such that an angular frequency $\omega_0=1/(LC)^{1/2}$, an angular frequency $\omega_1=1/CR$ and an angular frequency $\omega_H=1/CR_H$ satisfy conditions of $\omega_0>\omega_1$ and $\omega_0>\omega_H$, preferably $\omega_0>\omega_1$ and $\omega_0>\omega_H$ to extend a frequency characteristic toward a high frequency range.

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